

Datasheet: MCA1302G

Description:	RAT ANTI MOUSE INTERLEUKIN-10
Specificity:	IL-10
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	JES5-2A5
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	■			1/10 - 1/100
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA	■			1/200 - 1/2000
Immunoprecipitation			■	
Western Blotting	■			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ([BUF09](#)) for this purpose.**

Target Species	Mouse
Species Cross Reactivity	Reacts with: Goat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Recombinant Mouse IL-10.
External Database Links	UniProt: P18893 Related reagents Entrez Gene: 16153 IL10 Related reagents
Synonyms	IL-10
Fusion Partners	Spleen cells from immunized rats were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line.
Specificity	Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5 recognizes mouse Cytokine synthesis inhibitory factor (CSIF), also known as interleukin-10 (IL-10). IL-10 is produced by Ly-1(CD5) expressing B cells (O'Garra et al. 1992) and a subset of stimulated T cells (Asseman et al. 1999). IL-10 has a wide range of biological properties, including the inhibition of macrophage and T helper cell mediated cytokine synthesis, and the suppression of the delayed hypersensitivity response. Rat anti Mouse Interleukin-10 antibody, clone JES5-2A5 is reported to neutralize the activity of murine IL-10 (Weber-Nordt et al. 1994).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Abrams, J.S. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunological Review 127: 5-24. 2. Sander, B. <i>et al.</i> (1993) Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining J. Immunol. Methods. 166: 201-14. 3. Guesdon, J.L. <i>et al.</i> (1979) The use of avidin-biotin interaction in immunoenzymatic techniques. J. Histochem. Cytochem. 27: 1131-1139. 4. Nishigori, C. <i>et al.</i> (1998) Hind III liposomes suppress delayed-type hypersensitivity responses in vivo and induce epidermal IL-10 in vitro. J. Immunol. 161:2684-2691. 5. Weber-Nordt, R. <i>et al.</i> (1994) Lipopolysaccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. J. Immunol. 153:3734-3744. 6. Rennick, D. <i>et al.</i> (1995) Cofactors are essential for stem cell factor-dependent growth and maturation of mast cell progenitors: comparative effects of interleukin-3 (IL-3), IL-4, IL-10, and fibroblasts. Blood. 85: 57-65. 7. Sacco, S. <i>et al.</i> (1997) Protective effect of a single Interleukin-12 (IL-12) predose against the toxicity of subsequent chronic IL-12 in mice: Role of cytokines and glucocorticoids. Blood. 90:4473-4479. 8. Biswas, S.K. <i>et al.</i> (2006) A distinct and unique transcriptional program expressed by tumor-associated macrophages (defective NF-kappaB and enhanced IRF-3/STAT1 activation). Blood. 107: 2112-22. 9. Gaupp, S. <i>et al.</i> (2008) Amelioration of experimental autoimmune encephalomyelitis in IL-4Ralpha-/- mice implicates compensatory up-regulation of Th2-type cytokines. Am J Pathol. 173: 119-29. 10. Gonzalez-Juarrero, M. <i>et al.</i> (2013) Polar Lipids of <i>Burkholderia pseudomallei</i> Induce Different Host Immune Responses. PLoS One. 8: e80368.
Storage	Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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